

Characteristics

0630 - IO-LINK - PROGRAMMABLE -

	IO-Link	
	- Input RTD Pt100:	3-wire / -200...800 °C
	- Input Type J:	-210...1200 °C
	- Input Type K:	-200...1372 °C
	- Input Type N:	-200...1300 °C
	- Accuracy:	max. 0,3% of nominal range
	- Operating temperature:	-20...+80 °C
	- Configuration:	IO-Link interface
	- Connection:	Terminal screws
	- Protection:	IP20
	- Dimensions:	Ø45x23 mm
	- Casing:	Synthetics PA66

Technical Data

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RTD Pt100:	Sensor:	1x RTD Pt100
	Connection:	3-wire
	Nominal range:	-200...800 °C
	Sensor current:	0,9 mA
Thermocouple:		
	Type J:	Measuring range: -210...1200 °C
	Type K:	Measuring range: -200...1372 °C
	Type N:	Measuring range: -200...1300 °C

Output

Interface:	IO-Link
Signal level:	0/24 V (as per IO-Link specification)

Environmental Conditions

Temperature:	Operating range:	-20...+80 °C
	Storage:	-40...+85 °C
Air humidity:	30...90% rH (40 °C, no condensation)	

Performance Parameters

Measuring amplifier:	Accuracy:	max. 0,3% of range + sensor error
	Resolution:	16 bit
	Filter setting:	25 s
	Measuring rate:	10 measurements/s
	Configuration:	Via software (IO-Link communication)
	Transient response:	Temperature linear
	Switch-on delay:	<5 s
	Response time:	20 ms

Applications

The transmitter is suitable in all areas where temperatures have to be measured. It can be operated either with a 3-wire Pt100 RTD or with a thermocouple. The TH-TIO transmitter can be used in a wide range of applications and can be configured via IO-Link.



● Technical Data (Continued)

Performance Parameters (Continued)

Isolation voltage: 1 kV AC

Supply

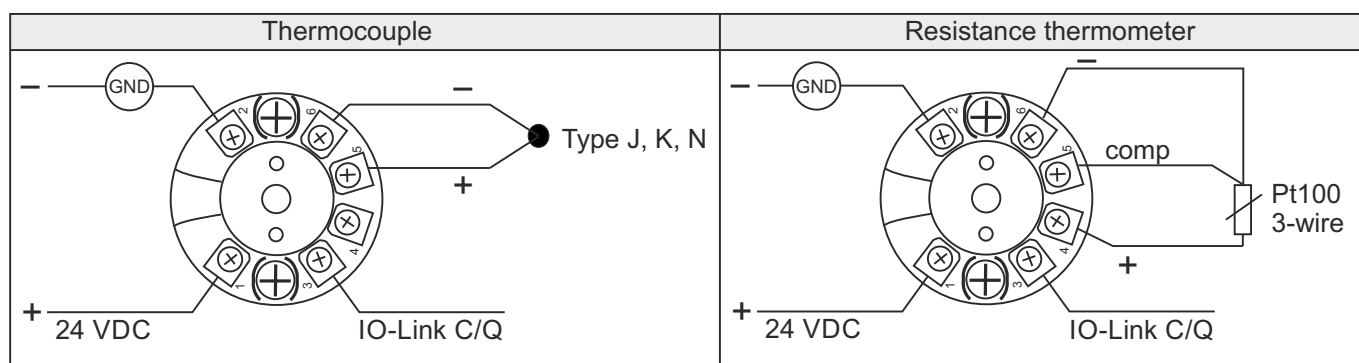
Voltage: 24 VDC

Reverse voltage protection: Yes (no function, no damage)

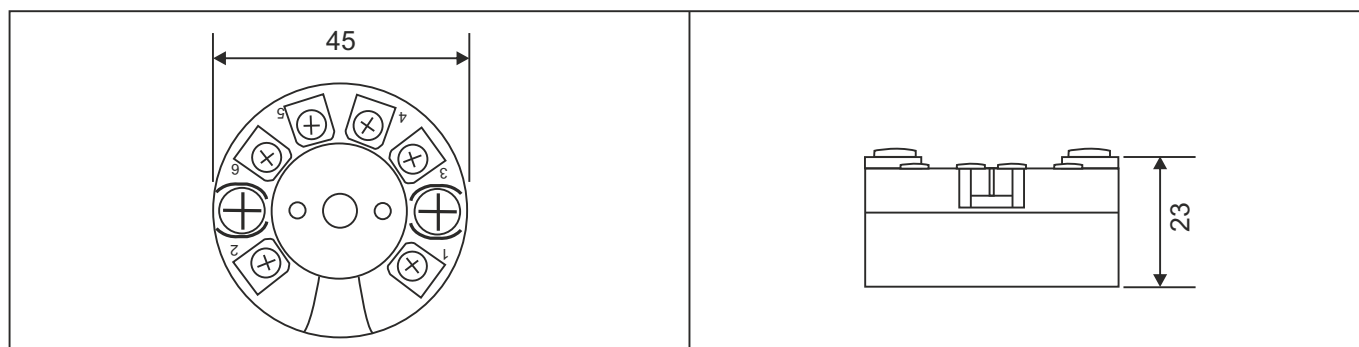
Mechanics

Casing: Dimensions: Ø45x23 mm
 Material: Plastic black (PA66)
 Protection class: IP20
 Electrical connection: Terminal screws
 Conductor cross section: 1 mm² (recommended)
 Stripping length: 8 mm (recommended)
 Weight (not potted): approx. 35 g
 EMC Conformity: EN 61000-6-4, EN 61000-6-2

● Electrical Connection



● Dimensions (in mm)



● Order Code

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Input:	Please specify	4					
Output:	IO-Link	1					
Casing:	Standard (no terminal head)		0				
	Diecast aluminum terminal head B		1				
Configuration:	Customized (please specify) ¹			0			
Special Model:	No					0	
	Yes (please specify)					1	

1) The factory setting is an unconfigured transmitter.